UTILITY

TRANSMITTAL

Approved for use through 10/31/2002. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Attorney Docket No. PATENT APPLICATION First Inventor

86038.000090

HEAT EXCHANGER WITH INTEGRAL INTERNAL TEMPERATURE SENSOR

Lines, James R.

Express Mail Label No.

EL871341353US

(Only for new nonprvosional applications under 37 C.F.R. 1.53(b)) **APPLICATION ELEMENTS Assistant Commissioner for Patents** ADDRESS TO: **Box Patent Application** See MPEP chapter 600 concerning utility patent aplication contents Washington, DC 20231 Fee Transmittal Form (e.g., PTO/SB/17) CD-ROM or CD-R in duplicate, large table or 7. (Submit an original and a duplicate for fee processing) Computer Program (Appendix) Applicant claims small entity status. 8. Nucleotide and/or Amino Acid Sequence Submission See 37 CFR 1.27. (If applicable, all necessary) Specification [Total Pages 16] Computer Readable Copy (CRF) (preferred arrangement set forth below) Descriptive title of the Invention b. Specification Sequence Listing on: Cross References to Related Applications CD-ROM or CD-R (2 copies); or Statement Regarding Fed sponsored R & D ii. 🔲 Paper Reference to sequence listing, a table, or a Statement verifying identity of above copies computer program listing appendix Background of the Invention **ACCOMPANYING APPLICATION PARTS** Brief Summary of the Invention Assignment Papers (cover sheet & document(s)) Brief Description of the Drawings (if filed) **Detailed Description** 37 C.F R. 3.73(b) Statement 10. Power of Attorney Claim(s) (when there is an assignee) Abstract of Disclosure Drawing(s) (35 USC 113) [Total Sheets English Translation Document (if applicable) Information Disclosure Statement 5. Oath or Declaration Copies of IDS [Total Pages 12. (IDS)/PTO-1449 Citations Newly executed (original or copy) a. Preliminary Amendment 13. Copy from a prior application (37 C.F.R Return Receipt Postcard (MPEP 503) h. 1.63(d)) 14. (Should be specifically itemized) (for continuation/divisional with Box 17 completed) Certified Copy of Priority Document(s) **DELETION OF INVENTOR(S)** 15. (if foreign priority is claimed) Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b). 16. Application Data Sheet. See 37 CFR 1.76 17. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation-in-part (CIP) of prior application No: Examiner: Group/Art Unit. For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 18. CORRESPONDENCE ADDRESS Customer Number of Bar Code Label 23387 Correspondence address below Name Address City State Zip Code Country Telephone Name (Print/Type) Roger Aceto Registration,No. (Attorney/Agent) 24.554 Signature Date

Burden Hour Statement. This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

December 6, 2001



Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2000

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT \$370.00

Complete if Known					
Application Number					
Filing Date					
First Named Inventor	Lines, James R.				
Examiner Name					
Group Art Unit					
Attorney Docket Number	86038.000090				

METHOD OF PAYMENT (check one)	FEE CALCULATION (check one)							
The Commissioner is hereby authorized to charge indicated fees and credit any overpayment to:	3. A							
Deposit	Large	Entity	Small	Entity				
Account	Fee	Fee	Fee	Fee	Fee Description	Fee Paid		
Number 033875	Code	(\$)	Code	(\$)				
Deposit	105	130	205	65	Surcharge – late filing fee or oath			
Account	127	50	227	25	Surcharge – late provisional filing fee or cover sheet			
Name HARTER, SECREST & EMERY LLP	139	130	139	130	Non-English specification			
Charge Any Additional Fee Required	147	2,520	147	2,520	For filing a request for ex parte reexamination			
Under 37 CFR 1.16 and 1.17	112	920*	112	920*	Requesting publication of SIR prior to Examiner action			
Applicant claims small entity status. See 37 CFR 1.27	113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action			
2. Payment Enclosed:	115	110	215	55	Extension for reply within first month			
, X Check Credit card Money Order Other	116	390	216	195	Extension for reply within second month			
FEE CALCULATION	117	890	217	445	Extension for reply within third month			
1. BASIC FILING FEE	118	1,390	218	695	Extension for reply within fourth month			
Large Entity Small Entity Fee	128	1,890	228	945	Extension for reply within fifth month			
Fee Fee Fee Description	119	310	219	155	Notice of Appeal			
Code (\$) Code (\$) Fee Paid	120	310	220	155	Filing a brief in support of an appeal			
101 740 201 370 Utility filing fee \$370.00	121	270	221	135	Request for oral hearing			
106 330 206 165 Design filing fee	138	1,510	138	1,510	Petition to institute a public use proceeding			
157 510 207 255 Plant filing fee	140	110	240	55	Petition to revive – unavoidable			
108 740 208 370 Reissue filing fee	141	1,240	241	620	Petition to revive – unintentional			
114 160 214 80 Provisional filing fee	142	1,240	242	620	Utility issue fee (or reissue)			
SUBTOTAL (1) \$370.00	143	440	243	220	Design issue fee			
2. Fee from	144	600	244	300	Plant issue fee			
Extra claims below Fee Paid	122	130	122	130	Petitions to the Commissioner			
Togic laims	123	50	123	50	Petitions related to provisional applications			
Claims 3 -3 = 0 X 42 = \$0	126	240	126	240	Submission of Information Disclosure Stmt			
Multiple Dependent =	581	40	581	40	Recording each patent assignment per property			
**or number previously paid, if greater, For Reissues, see below	146	710	246	3655	(times number of properties) Filing a submission after final rejection (37 CFR § 1.129(a))			
Large Entity Small Entity Fee Fee Fee Fee Fee Fee Code (\$)	149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))			
103 18 203 9 Claims in excess of 20	179	710	279	355	Request for Continued Examination (RCE)			
102 84 202 42 Independent claims in excess of 3	169	900	169	900	Request for expedited examination of a design			
104 270 204 135 Multiple dependent claim, if not paid					application			
109 84 209 42 ** Reissue independent claim over original patent	Other fee	e (specify)						
110 18 210 9 ** Reissue claims in excess of 20 and over original patent		SUBTOTAL (3) (\$)						
SUBTOTAL (2) 0	* Reduce	ed by Basi	c Filing F	ee Paid	(4)			
SUBMITTED BY Complete (if applicable)								
Name (Print/Type) Roger Aceto Registration No. (Attorney/Agent) 24,554 Telephone 716-232-6500								
Signature Date December 6, 2001								

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038

CERTIFICATE OF EXPRESS MAIL UNDER 37 CFR SECTION 1.10

DOCKET NO.: 86038.000090

APPLICANT: James R. Lines

TITLE OF INVENTION:

HEAT EXCHANGER WITH INTEGRAL INTERNAL

TEMPERATURE SENSOR

I hereby certify that

Utility Patent Application Transmittal

Fee Transmittal Form (in duplicate) w/check in the amount of \$370.00

12 pages of specifications

3 pages of claims

1 page Abstract

3 sheets of drawings

Declaration w/Power of Attorney

Recordation of Assignment (in duplicate) w/assignment document and Check in the amount of \$40.00

Return Receipt Postcard

are being deposited with the United States Postal Service "Express Mail Office to Addressee" service under Express Mail Label #EL871341353US addressed to the Commissioner of Patents, Box Patent Application, P.O. Box 2327, Arlington, VA 22202, on December 6, 2001

Brenda L. Ricci